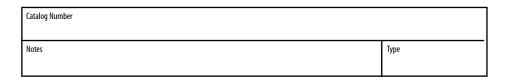


LED High Mast Lighting







Mechanical

Rugged die cast, low copper content aluminum 380 alloy electrical and optical housing are polyester powder coated with super durable paint for durability and corrosion resistance. Rigorous pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5,000 hours exposure to salt fog chamber (per ASTM B117). Four bolt horizontal arm mount with +/- 5 degree vertical adjustment provides 3g vibration rating per ANSI C136. Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8"). Two captive bolts disengage top electrical corrosion easy access to LED drivers, surge protection, and terminal block. IP66 rated LED modules, IP65 electrical assembly per IEC60068-2-3. Luminaire electrical and optical housing ship complete in one carton facilitating installation and minimizing carton disposal at jobsite.

Electrical

Quick disconnect connectors for ease of installation and maintenance. Extreme surge protection meets 20KV/10KA per ANSI/IEEE C62.41. Driver includes 0-10V dimming, meets maximum total harmonic distortion (THD) of 20%, and is ROHS compliant. A three stage terminal block is standard for ease of installation. Minimum operating temperature is -40°C. Electronic driver has an expected life of 100,000 hours at 25°C. XVOLT - Electrical option provides protection against dropped neutral in 277V input as derived from 480V Wye. XVOLT also provides greater immunity from six common power quality issues.

Optical

Chip on Board (COB) LED technology with color temperature options of 3000K, 4000K and 5000K with CRI of 70 minimum. Borosilicate prismatic glass optics ensure longevity and minimize dirt depreciation. Zero uplight optics reduce sky glow and meets Dark Sky requirements. Prismatic glass optics provide overlapping pattern on application space eliminating bark spots. Prismatic glass optics minimize direct view of LED, reducing glare. Rotatable optic assembly provides alignment of asymmetric distributions to roadway.

Controls (Optional)

Controls options include the PR3 and PR7 locking style photocontrol receptacles. The PR7 receptacle option is factory pre-wired to dimming leads of drivers.

PCLL - Extreme long life solid state locking-style photocontrol (20 year rated life)

ICMNYX - Nyx Hemera module, an onboard device that can receive power line control signals and communicate commands to the driver. Part of an overall Nyx Hemera control system and relies on components of the control system that are installed outside of the luminaire and provided separately.

Field Adjustable Output (AO) module — An onboard device that allows manual adjustment of the light output and input wattage to meet site specific requirements, allowing a single fixture configuration to be flexibly applied in many different applications. The AO module is pre-set at the factory to position 8 (100% output).

Testing Compliance

See Holophane HMAO-LED Validation Test Specification — Luminaire conforms to the following standards:

- ANSI/IEEE extreme surge protection per C136.2
- ANSI C82.77:2002 harmonic distortion
- Vibration tested to 3g level per ANSI C136.31-2018
- Scribe creepage rating of 8 (per ASTM D1654) after over 5,000 hours exposure to salt fog chamber (per ASTM B117)
 FCC Title 47 Part 15, subpart B
- Optical enclosure tested to IP66 ingress protection per IEC 60529:1999
- IEC 61000 Electromagnetic Compatibility Testing (EMC)
- UL 1598, Wet Location Safety Listing
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/ QPL to confirm which versions are qualified.

Manufacturing

Manufactured in Crawfordsville, Indiana. ARRA compliant. Test 100% electrical of all luminaires before shipment. No less than five (5) years experience in manufacturing LED-based products.

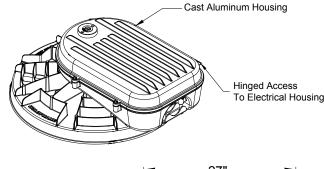
Warranty

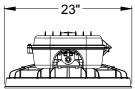
5-year limited warranty. Complete warranty terms located at: <u>www.acuitybrands.com/support/customer-support/terms-</u> and-conditions

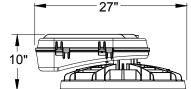
Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

DIMENSIONAL DATA







Weight = 68 lbs. max (See Table on Page 6 for Details) EPA = 1.30 sq. ft
UL1598, 50°C, Wet location P1, P2, P3, P4, P5
UL1598, 40°C, Wet location P6
UL1598, 30°C, Wet location PK7



LED High Mast Luminaire



ORDERING INFORMATION

Example: HMLED4 P4 40K HVOLT HGR AW PR7

Series	Performance Package	Color temperature	Voltage	Housing Color	Optical	Options
HMLED4	P1 31,000 Lumens P2 42,000 Lumens P3 63,000 Lumens P4 85,000 Lumens P5 105,000 Lumens P6 112,000 Lumens P7 120,000 Lumens	30K 3000K CCT 40K 4000K CCT 50K 5000K CCT	MVOLT Auto-Sensing Voltage (120 - 277 V) HVOLT Auto-Sensing Voltage (347 - 480 V) XVOLT Auto-Sensing Voltage (277 - 480 V)	HAS As Specified HGR Gray HGH Graphite HBK Black HBZ Bronze HWH White	LN Long and Narrow MAS Medium, Asymmetric MAW Medium, Asymmetric Wide NAS Narrow, Asymmetric FTA Forward Throw, Asymmetric AN Area Narrow AW Area Wide AWS Area Wide Square	AO Field Adjustable Output SFD Single Fuse Disconnect DFD Double Fuse Disconnect PR3 3 Pin NEMA Receptacle PR7 7 Pin NEMA Receptacle PCLL DTL DLL Photocontrol for 120-277V PCL3 DTL DLL Photocontrol for 347V PCL4 DTL DLL Photocontrol for 480V SH Shorting Cap ICMNYX Integrated Nyx Hemera Control DALI DALI driver option, consult factory

Accessories: Order as	Accessories: Order as separate catalog number.					
HMLEDF1FUS10R	Single Fuse Accessory					
HMLEDF2FUS10R	Double Fuse Accessory					
HMLED4D90	90 Degree Shield					
HMLED4D120	120 Degree Shield					
HMLED4D180	180 Degree Shield					



PACKAGE DISTRIBUTION WAITS LUMRIS LIPW LIPW	PERFORMANCE		SYSTEM	3000K		400	OOK	5000K		
P1		DISTRIBUTION		LUMENS	LPW	LUMENS	LPW	LUMENS	LPW	
PI NAS 199		LN		32,484	163	33,085	166	33,686	169	
PI		MAS		29,689	149	30,238	152	30,787	155	
PI		MAW		29,772	149	30,323	152	30,873	154	
FIA 28,002 141 28,571 144 29,000 146	D1	NAS	100	29,864	150	30,416	153	30,968	156	
AW AWS	PI	FTA	199	28,052	141	28,571	144	29,090	146	
P2		AN		33,014	166	33,625	169	34,235	172	
P2 NAS MAS		AW		30,655	154	31,222	157	31,788	160	
P2 MAS MAS MAS MAS MAS MAS A2,284 42,2401 1444 43,186 147 44,105 150 149 44,2101 1444 43,186 147 44,105 150 140 140 140,105 150 39,952 135 40,961 138 41,430 140,435 162 48,738 165 168 AW AWS AWS A4,559 148 44,466 151 45,723 153 153 AWS MAS MAS MAS MAS 61,231 143 66,995 156 66,8234 159 69,473 162 149 61,231 143 62,263 145 63,495 146 63,495 148 AW 61,401 143 62,263 146 63,495 148 AW 61,401 143 62,275 146 63,688 149 98,781 150 AWS AWS AWS 63,066 147 64,390 150 65,529 153 AWS AWS AWS AWS AWS AWS AWS AW		AWS		30,589	154	31,155	157	31,720	159	
P2 MAS A		LN		46,264	157	47,120	160	47,975	138	
P2 P3		MAS		42,284	143	43,066	146	43,848	149	
FIA AN ANY AV		MAW		42,401	144	43,186	147	43,970	149	
FIA AN AN AN 47,019 199 47,889 162 48,758 165 AW AN 43,659 148 44,466 151 45,273 153 153 166,995 156 68,234 159 68,9473 162 161,231 143 62,363 145 63,495 148 64,371 150 45,176 153 148 MAS MAS 61,231 143 62,363 145 63,695 148 64,371 140 64,371 140 64,371 150 45,176 153 148 MAS 61,231 143 62,363 145 63,695 148 63,695 148 63,695 148 64,371 140 63,665 144 62,772 146 63,866 149 159 68,087 159 150 65,5490 152 153 183 81,631 140 140 140 140 140 140 140 1	מח	NAS	205	42,532	144	43,319	147	44,105	150	
## AW BASE 43,659 148	r2	FTA	293	39,952	135	40,691	138	41,430	140	
P3 AWS		AN		47,019	159	47,889	162	48,758	165	
P3		AW		43,659	148	44,466	151	45,273	153	
P3		AWS		43,565	148	44,371	150	45,176	153	
P3 MAW NAS FTA FTA AN AN ANS AN ANS FTA AN ANS AN ANS ANS ANS ANS ANS		LN		66,995	156	68,234	159	69,473	162	
P3 P3		MAS		61,231	143	62,363	145	63,495	148	
P3 FTA AN AN AN 68,087 159 69,346 162 70,605 165 165 163,086 147 64,293 150 65,6420 152 LIN 86,109 148 87,701 151 89,294 153 MAS MAW 188,019 136 80,656 138 81,611 140 87,919 136 80,378 138 81,838 141 140 87,919 136 80,378 138 81,838 141 140 87,919 136 80,666 139 82,090 141 87,713 150 81,258 140 82,761 142 84,264 145 81,086 139 82,285 142 84,084 144 145 MAS MAW 107,758 153 109,751 156 111,744 159 109,516 110,897 144 100,398 147 100,549 101,689 147 100,308 139 130 130 102,719 146 146 146 147 148 149 149 149 149 149 149 149		MAW		61,401	143	62,536	146	63,672	149	
FIA AN	Do	NAS	420	61,590	144	62,729	146	63,868	149	
P4 AW AWS AWS AWS AWS AWS AWS AWS	rs	FTA	429	57,856	135	58,926	137	59,995	140	
AWS AWS LIN B61,099 148 87,701 151 89,294 153 MAS MAW 78,700 135 80,155 138 81,611 140 78,919 136 80,376 139 132,090 141 AN ANS AWS AWS AWS AWS AWS AWS		AN		68,087	159	69,346	162	70,605	165	
P4 NAS		AW		63,221	147	64,390	150	65,559	153	
P4 MAS MAW MAS MAW NAS FTIA AN AW AWS MAS MAS MAS MAS MAS MAS		AWS		63,086	147	64,253	150	65,420	152	
P4 MAW NAS FIA		LN		86,109	148	87,701	151	89,294	153	
P4 P4		MAS		78,700	135	80,155	138	81,611	140	
P4 AN AN AW AW AW B1,086 B1,08		MAW		78,919	136	80,378	138	81,838	141	
FIA AN AN AN AW AW AWS AWS AN AN B1,258 B1,086 B1,39 B1,31 B1,086 B1,39 B1,258 B1,42 B1,086 B1,086 B1,39 B2,585 B142 B1,084 B1,084 B1,095 B1,097 B1,097 B1,007 B1,009 B1,	D4	NAS	502	79,162	136	80,626	139	82,090	141	
AW	P4	FTA	582	74,359	128	75,734	130	77,109	132	
AWS		AN		87,513	150	89,131	153	90,749	156	
P5 LN		AW		81,258	140	82,761	142	84,264	145	
P5		AWS		81,086	139	82,585	142	84,084	144	
P5		LN		107,758	153	109,751	156	111,744	159	
P5 NAS FTA AN AN AW AWS LIN MAS MAW NAS FTA AN AN AN AN AN ANS AWS LIN ANS AN ANS ANS ANS ANS ANS ANS ANS ANS		MAS		98,487	140	100,308	143	102,129	145	
P5 FTA AN AN AW AWS AWS AWS AWS AWS AWS AWS AWS AWS		MAW		98,762	140	100,588	143	102,414	146	
Pf	DE	NAS	702	99,065	141	100,897	144	102,729	146	
AW 101,689 145 103,569 147 105,449 150 AWS 101,472 144 103,348 147 105,225 150 LN 112,822 150 114,908 153 116,995 155 MAS 103,115 137 105,022 139 106,929 142 103,403 137 105,315 140 107,227 142 NAS 103,721 138 105,639 140 107,557 143 FTA 97,427 129 99,229 132 101,030 134 AN 114,663 152 116,783 155 118,903 158 AW 106,467 141 108,436 144 110,405 147 AWS 106,241 141 108,205 144 110,169 146 LN 121,877 145 124,130 148 126,384 151 MAS MAW 111,701 133 113,450 135 115,510 138 MAW 111,701 133 113,767 136 115,832 138	ro	FTA	/ 03	93,054	132	94,775	135	96,496	137	
AWS LN I11,472 I144 I03,348 I47 I05,225 I50 I50 I14,998 I53 I16,995 I55 MAS MAW I03,115 I37 I05,022 I39 I06,929 I42 I03,403 I37 I05,315 I40 I07,227 I42 I03,403 I37 I05,315 I40 I07,227 I42 I03,403 I37 I05,315 I40 I07,227 I42 I03,403 I37 I05,315 I40 I07,557 I43 I07,557 I43 I14,663 I52 I16,783 I55 I18,903 I58 I14,663 I52 I16,783 I55 I18,903 I58 I10,467 I41 I08,436 I44 I10,405 I47 I46 IN IN IN IN IN IN IN IN IN I		AN		109,516	156	111,542	159	113,567	162	
P6 LN		AW		101,689	145	103,569	147	105,449	150	
P6 MAS MAW NAS FTA AN AW AWS LN AWS MAS MAS MAS MAS MAS MAS MAS		AWS		101,472	144	103,348	147	105,225	150	
P6 MAW NAS FTA AN AN AW AWS LIN MAS MAS MAS MAS MAW NAS NAS NAS NAS NAS NAS NAS N		LN		112,822	150	114,908	153	116,995	155	
P6 NAS FTA FTA AN AN AW AWS AWS AWS AWS AWS AWS AWS AWS AWS		MAS			137	105,022	139	106,929	142	
FTA AN AN AW AWS AWS AWS AWS AWS AWS AWS AWS AWS		MAW		103,403	137	105,315	140	107,227	142	
HA 97,427 129 99,229 132 101,030 134 AN 114,663 152 116,783 155 118,903 158 AW 106,467 141 108,436 144 110,405 147 AWS 106,241 141 108,205 144 110,169 146 LN 121,877 145 124,130 148 126,384 151 MAS 111,391 133 113,450 135 115,510 138 MAW 111,701 133 113,767 136 115,832 138 NAS 112,045 134 114,117 136 116,188 139	D6	NAS	752	103,721	138	105,639	140	107,557	143	
AW 106,467 141 108,436 144 110,405 147 AWS 106,241 141 108,205 144 110,169 146 LN 121,877 145 124,130 148 126,384 151 MAS 111,391 133 113,450 135 115,510 138 MAW 111,701 133 113,767 136 115,832 138 NAS 838 112,045 134 114,117 136 116,188 139	ro	FTA	733	97,427	129	99,229	132	101,030	134	
AWS 106,241 141 108,205 144 110,169 146 LN 121,877 145 124,130 148 126,384 151 MAS 111,391 133 113,450 135 115,510 138 MAW 111,701 133 113,767 136 115,832 138 NAS 838 112,045 134 114,117 136 116,188 139		AN		114,663	152	116,783	155	118,903	158	
LN 121,877 145 124,130 148 126,384 151 111,391 133 113,450 135 115,510 138 111,701 133 113,767 136 115,832 138 112,045 134 114,117 136 116,188 139		AW		106,467	141	108,436	144	110,405	147	
MAS 111,391 133 113,450 135 115,510 138 MAW 111,701 133 113,767 136 115,832 138 NAS 112,045 134 114,117 136 116,188 139		AWS		106,241	141	108,205	144	110,169	146	
MAW 111,701 133 113,767 136 115,832 138 112,045 134 114,117 136 116,188 139		LN			145	124,130	148	126,384	151	
NAS 838 112,045 134 114,117 136 116,188 139		MAS		111,391	133	113,450	135	115,510	138	
P7 838 · · · · · · · · · · · · · · · · · ·		MAW		111,701	133	113,767	136	115,832	138	
'' FTA 105,246 126 107,192 128 109.138 130	D7	NAS	020	112,045	134	114,117	136	116,188	139	
	"/	FTA	030	105,246	126	107,192	128	109,138	130	
AN 123,865 148 126,156 151 128,446 153		AN		123,865	148	126,156	151	128,446	153	
AW 115,012 137 117,139 140 119,265 142		AW		115,012	137	117,139	140	119,265	142	
AWS 114,767 137 116,889 139 119,011 142		AWS		114,767	137	116,889	139	119,011	142	

LED High Mast Luminaire



OPTIONS MATRIX

				Perfor	mance Pa	ıckage			Colo	r Tempera	nture		Voltage				Housin	g Color		
		P1	P2	P3	P4	P5	P6	P7	30K	40K	50K	MVOLT	HVOLT	XVOLT	HAS	HGR	HGY	HBK	HBZ	HWH
	P1		N	N	N	N	N	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	P2	N		N	N	N	N	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	P3	N	N		N	N	N	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Performance Package	P4	N	N	N		N	N	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
rackage	P5	N	N	N	N		N	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	P6	N	N	N	N	N		N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	P7	N	N	N	N	N	N		Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ
	30K	Υ	Υ	Υ	Υ	Υ	Υ	Υ		N	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Color Temperature	40K	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N		N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
icinperature	50K	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N		Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	MVOLT	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ		N	N	Υ	Υ	Υ	Υ	Υ	Υ
Voltage	HVOLT	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N		N	Υ	Υ	Υ	Υ	Υ	Υ
	XVOLT	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	N	N		Υ	Υ	Υ	Υ	Υ	Υ
	HAS	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ		N	N	N	N	N
	HGR	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N		N	N	N	N
Housing Color	HGY	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N		N	N	N
	HBK	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	N		N	N
	HBZ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	N	N		N
	HWH	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	N	N	N	
	LN	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	MAS	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	MAW	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Optics	NAS	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
optics	FTA	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	AN	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	AW	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	AWS	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	A0	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	DALI	RFD	RFD	RFD	RFD	RFD	RFD	N	RFD	RFD	RFD	RFD	N	N	RFD	RFD	RFD	RFD	RFD	RFD
	SFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	DFD	Υ	Υ	Υ	Υ	Υ	Y	Y	Y	Υ	Y	Y	Y	Y	Y	Y	Y	Y	Υ	Υ
	PR3	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ	Υ	Y	Υ	Y	Υ	Υ	Y	Υ	Υ	Υ
Options	PR7	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ	Υ	Υ	Υ	Y	Υ	Υ	Y	Υ	Υ	Υ
	PCLL	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ	Y	Y	N	Y	Υ	Υ	Y	Y	Y	Υ
	PCL3	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Y	Υ	Υ	Y	Υ	Y	Υ
	PCL4	Υ	Y	Υ	Y	Y	Υ	Υ	Y	Y	Υ	N	Υ	Y	Υ	Υ	Y	Υ	Y	Υ
	SH	Υ	Υ	Υ	Υ	Y	Υ	Υ	Y	Y	Υ	Υ	Υ	Y	Υ	Υ	Y	Υ	Y	Υ
	ICMNYX	Υ	Y	Υ	Y	N	N	N	Y	Y	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Y	Υ
	HMLED4D90	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Υ	Υ	Υ	Y	Υ	Υ	Y	Υ	Υ	Υ
HSS	HMLED4D120	Υ	Υ	Y	Υ	Υ	Υ	Υ	Y	Υ	Υ	Y	Υ	Υ	Υ	Υ	Y	Υ	Υ	Υ
	HMLED4D180	Υ	Y	Υ	Y	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ

Note: Options designated "RFD" require additional information. Consult factory

LED High Mast Luminaire



OPTIONS MATRIX (continued)

							Optio	ons						Shielding	
		AO	DALI	SFD	DFD	PR3	PR7	PCLL	PCL3	PCL4	SH	ICMNYX	HMLED4D90	HMLED4D120	HMLED4D180
	P1	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ	Υ	Υ
	P2	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
2.6	P3	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Performance Package	P4	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
ruckuge	P5	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ
	P6	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ
	P7	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ
6.1	30K	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Color Temperature	40K	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
remperature	50K	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	MVOLT	Υ	RFD	Υ	Υ	Υ	Υ	Υ	N	N	Υ	Υ	Υ	Υ	Υ
Voltage	HVOLT	Υ	N	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	XVOLT	Υ	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Y
	HAS	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y
	HGR	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Housing Color	HGY	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	HBK	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	HBZ	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y
	HWH	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	LN	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	MAS	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	MAW	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Optics	NAS	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Optics	FTA	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	AN	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	AW	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	AWS	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	AO		N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ
	DALI	N		RFD	RFD	RFD	RFD	RFD	RFD	RFD	RFD	N	RFD	RFD	RFD
	SFD	Υ	RFD		N	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	DFD	Υ	RFD	N		Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
	PR3	Υ	RFD	Υ	Υ		N	Υ	Υ	Υ	Υ	N	Υ	Υ	Υ
Options	PR7	Υ	RFD	Υ	Υ	N		Υ	Υ	Υ	Υ	N	Υ	Υ	Y
	PCLL	Υ	RFD	Υ	Υ	Υ	Υ		N	N	N	N	Υ	Υ	Υ
	PCL3	Υ	RFD	Υ	Υ	Υ	Υ	N		N	N	N	Υ	Υ	Y
	PCL4	Υ	RFD	Υ	Υ	Υ	Υ	N	N		N	N	Υ	Υ	Υ
	SH	Υ	RFD	Υ	Υ	Υ	Υ	N	N	N		N	Υ	Υ	Y
	ICMNYX	N	N	Υ	Υ	N	N	N	N	N	N		Υ	Υ	Υ
	HMLED4D90	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ		N	N
HSS	HMLED4D120	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N		N
	HMLED4D180	Υ	RFD	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	

Note: Options designated "RFD" require additional information. Consult factory



Adjustable Output Reponse (AO)							
AO Position	% Lumen Output	% Wattage					
1	21%	19%					
2	33%	31%					
3	46%	43%					
4	58%	56%					
5	70%	68%					
6	82%	81%					
7	94%	94%					
8 (factory default)	100%	100%					

Luminaire Ambient Temperature (LAT) Factor									
OC	15C	25C	35C	40C	50C				
1.05	1.02	1.00	0.98	0.97	0.96				

P1 thru P5 qualified to 50°C P6 qualified to 40°C P7 qualified to 30°C ICMNYX option qualified to 40°C

	LED Lumen Maintenance							
Lumen Package	0 hours	25,000 hours	50,000 hours	60,000 hours	75,000 hours	100,000 hours		
P1 thru P4	100%	96%	92%	91%	89%	85%		
P5	100%	96%	92%	90%	88%	84%		
P6	100%	95%	91%	89%	87%	82%		
P7	100%	94%	89%	87%	84%	79%		

The $\it italicized$ data is extrapolated beyond the TM-21 standard

	Input Operating Amps									
	120V	208V	240V	277 V	347V	480 V				
P1	1.69	0.97	0.84	0.73	0.58	0.42				
P2	2.48	1.43	1.24	1.08	0.86	0.62				
P3	3.59	2.07	1.80	1.56	1.24	0.90				
P4	4.87	2.81	2.44	2.11	1.69	1.22				
P5	5.85	3.38	2.93	2.53	2.02	1.46				
P6	6.28	3.62	3.14	2.72	2.17	1.57				
P7	6.97	4.02	3.48	3.02	2.65	1.92				

Fixture Weight							
P1 thru P2	47 lbs						
P3 thru P4	53 lbs						
P5 thru P7	59 lbs						
P7 HVOLT	68 lbs						

